

REMARKS

The new Action of April 4, 2006, is appreciated.

Claims 16 to 19 now define the number of harmonic spectral lines, the fourth spectral line (fundamental plus three harmonic spectral lines) sometimes not being used as described at page 3, line 17, for example, and the amplitude variation thereof shown in Figs 1-3, for example, sometimes eliminating some from the analysis. Claims 20 and 21 define the frequencies the applicant wants to claim, which may be more limited than his disclosure, so long as supported therefrom as at page 5, lines 12-13. Nothing improper under 35 USC 112 is seen.

As described in the specification at page 3, lines 22 and 23, as "the attenuation of one or more spectral lines furnish the base [i.e., basis] for the diagnosis of the structures and/or ... the irradiated tissues," [i.e., organized chemical systems]. This may be seen by comparing Fig. 1, which exhibits the fundamental spectral line and two harmonics thereof from normal appearance of a patient (organized chemical system) as described at page 4, line 21, with Fig. 2, where the amplitudes of both harmonics are attenuated, which "... means that is an acute state of alteration of the colon tissue," as described at page 4, line 23.

The fundamental spectral line and harmonics of, for example, Figs. 1 and 2, are analyzed as a continuum in an "... electromagnetic continuum isotropy analyzer ..." as described at page 3, line 9, for example. Analyzing a continuum as described in the specification requires the continuum to be analyzed and, therefore, a continuum of the radio frequencies including the fundamental and harmonic spectral lines that are analyzed must also be produced.

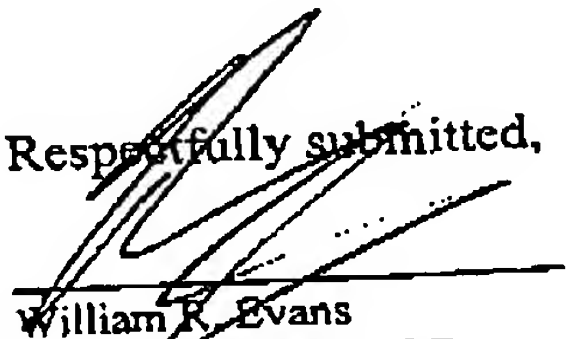
The continuum of the radio frequencies of the claims distinguishes the claimed invention from the cited Robertson, et al. and Arjavalasingam, et al. publications. In the Robertson, et al. publication, the carrier lifetime is reduced to "... less than 1 picosecond (ps)" as described on page 88, line 16, and shown in Figure 2, where the RECEIVED SIGNAL is 0 for long tails at the beginning and end. In the Arjavalasingam, et al. publication, the "current transient" spreads only to about 7 ps as described on page 255, lines 15 and 16. Picosecond transients are not a continuum of radio frequencies, as claimed.

Fig. 2(b) of the Arjavalasingam, et al. publication shows the amplitude spectrum that is obtained from the picosecond transient. It has a peak just below 50 GHz and another just above 100 GHz which is not quite an harmonic, as claimed, and not described as a harmonic.

Finally, while the Arjavalasingam, et al. publication measures a photonic band structure phenomena in two-dimensional periodic dielectric arrays (see, page 254, Abstract) description of doing so from variation of spectral lines of Fig. 2(b) has not been found. Only the claimed invention appears to do this.

Reconsideration and allowance are, therefore, requested.

Respectfully submitted,


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